

CLAIMS

[1] An ultrasonic diagnostic apparatus comprising:

a transducer array in which a plurality of transducers for transmitting an ultrasonic wave to a subject and receiving a reflected wave therefrom are arrayed;

a delay addition unit for performing parallel reception by carrying out a delay addition operation with respect to reception signals obtained by the transducer array; and

a deflection angle control unit for controlling a deflection angle for reception according to a setting for the delay addition operation carried out by the delay addition unit,

wherein the deflection angle control unit narrows an angle formed between a plurality of directions of reception directivities in the parallel reception as a deflection angle of a transmission beam transmitted from the transducer array increases.

[2] The ultrasonic diagnostic apparatus according to claim 1, further comprising a correction unit for performing control for changing sensitivity correction amounts for a plurality of reception signals in the parallel reception in a manner such that a decrease in a relative sensitivity in transmission-reception due to an increase in the deflection angle of the transmission beam is compensated.

[3] The ultrasonic diagnostic apparatus according to claim 2, wherein the correction unit performs correction such that any of the plurality of reception signals received in a state such that angles between respective directions of reception directivities in the parallel reception and a direction of a directivity of the transmission beam are equal to one another have relative sensitivities

equal to one another.

- [4] The ultrasonic diagnostic apparatus according to any one of claims 1 to 3, wherein the deflection angle control unit performs control such that a difference between a deflection angle determining a direction of the transmission beam and a deflection angle determining a next direction of the transmission beam decreases as the deflection angle of the transmission beam increases.
- 10 [5] The ultrasonic diagnostic apparatus according to claim 4, wherein the plurality of transducers are arrayed at least two-dimensionally, and
- a plurality of points at which the transmission beam crosses a projection face form lattice points that are arrayed two-dimensionally at
- 15 uniform intervals.